# DACS

Staying abreast of new information technologies and software tools, and maintaining some degree of software standardization is an important but difficult process in today's ever-changing world of computer technology. DACS serves as an authoritative source for state-of-the-art software information and provides technical support to the software community, including software technology users, researchers, program and acquisition managers, and software developers in defense, industry, and academia.

The DACS has been designated the DoD Software Web Site and the DoD Software Information Clearinghouse by the DoD Software Management Review Council. By contacting the DACS Clearinghouse, users can locate commercial off-the-shelf (COTS) software and reusable software to meet their functional needs; identify best practices, policy, or standards; identify other DoD users/organizations addressing similar issues; locate the latest open source information on topics of interest; and get software project management advice (size and cost estimation, measurement, project planning, risk management, etc.).

By visiting the DACS Web site, users can access the latest software technology information; locate DoD software standards; find a schedule of upcoming conferences and workshops; locate extensive measurement information and databases; find links to other DoD software entities and resources; obtain free copies of DACS technical reports and newsletters; gain access to the DACS searchable bibliographic/abstract information database of more than 200,000 documents; and locate extensive Web resources on selected DACS topic areas.

## TATs & *Products*

### Air Force Software Technology for Adaptable Reliable Systems (STARS) Demonstration Project

In support of this project, DACS is using clean room software engineering to develop the user interface for the Automated Tracking and Monitoring System for the Systems Center at Cheyenne Mountain.

### Wafer Scale Signal Processor (WSSP)

The DACS is the primary systems software developer for the AFRL's Wafer Scale Signal Processor, a high performance, low power usage high performance computer. The DACS has developed the operating system, C compiler, Assembler, and Simulators for this processor. The DACS is also leading the software development effort for the application of the WSSP for BMDO's Discriminating

### Interceptor Technology Program Hammer Award

The results of a DACS TAT, "Science and Technology Corporate Information Management (CIM) Support," won the prestigious Hammer Award. The TAT streamlined the preparation and production of the

annual "DoD In-House Research, Development, Test, and Evaluation (RDT&E) Activities Report."

## COTS Database

This database contains extensive information about software engineering and software technology tools.Users can receive information about software development tools as well as other Information Technology Tools as well as new product announcements.

## DACS Bibliographic Database

This database (also searchable on DACS Web site) provides abstracts on more than 300,000 articles in the software technology field.

## Software Life-cycle Empirical/Experience Database

This database contains software life-cycle data relevant to software reliability, software errors, faults and failures, software cost and productivity, and post-deployment support collected on numerous software development efforts.

## Training Courses

Current DACS courses include Software Measurement, Systems Engineering, and Electronic Publishing on the Web. These courses are taught by recognized experts in these fields such as Dr. Victor Basili, Mr. John Marciniak, and Mr. Thomas McGibbon.

## Free Quarterly Newsletter

The DACS publishes *Software Tech News*, a free quarterly newsletter that provides information on current activities and focuses on the DoD's major initiatives in software technology.

## Object-Oriented Middleware

This study provides an overview of current object-oriented middleware technologies; provides guidance on their maturity; outlines development issues; and describes the benefits associated with using this type of technology.

## A State-of-the-Art Report: Software Design Methods

This report provides a useful snapshot of software design technology that can be used as a tutorial, a starting point for detailed research, or a guide for those who will be developing software in the future.

## A State-of-the-Art Report: A Business Case for Software Process Improvement

This report discusses and models the economic benefits to software development organizations in performing software process improvement.

For extensive information about DACS products and services, as well as more information about the DACS, contact a DACS representative or visit our Web site.

For extensive information about DACS products and services, as well as more information about the DACS, contact a DACS representative or visit our Web site at **http://www.dacs.dtic.mil/**

**In the near future,DAC's URL will change to http://iac.dtic.mil/dacs**

**DACS may be reached at:**

**Address:**
DACS
775 Daedalian Drive
Griffiss Business & Technology Park
Rome, NY 13441–4909

| | |
|---|---|
| Phone: | (315) 334–4905 |
| | (800) 214–7921 |
| Fax: | (315) 334–4965 |
| E-mail: | dacs@dtic.mil |
| URL: | http://www.dacs.dtic.mil |

**Thomas L. McGibbon**
**Director**
Phone: (315) 334–4933
E-mail: tmcgibbon@dacs.dtic.mil

**Paul M. Engelhart**
**COTR**
Air Force Research Laboratory
Information Directorate/IFED
32 Brooks Road
Rome, NY 13441–4114

Phone: (315) 330–4477
DSN: 587–4477
FAX: (315) 330–2822
E-mail: Paul.Engelhart@rl.af.mil